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JP6192879A: REFINING METHOD FOR COBALT

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Application Number: **JP1992000357366**

IPC Class: **C25C 007/06; C22C 019/07; C25C 001/08;**

Abstract: **Purpose:** To continuously obtain an extremely high purity cobalt.
Constitution: In an electrolytic refining method for cobalt by electrodepositing a purified cobalt metal on a cathode plate by using a crude cobalt metal as an anode 5 and a cobalt sulfate aq. solution as an electrolyte in an electrolytic cell 1, the electrolyte is taken out from the electrolytic cell 1, is allowed to contact with an extractant containing a mixture of alkyl phosphate with alkyl oxime and a diluent to extract and remove the impurities and the electrolyte after cleaned is circulated again to the electrolytic cell 1. The preferable condition of the electrolysis is pH 1-3 in electrolyte, 40-160g/l in cobalt conc. of the electrolyte, 0.001-0.1A/cm² in current density. Iron con. and nickel conc. in the deposited cobalt are respectively reduced to 0.5ppm and 0.1ppm.
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Foreign References: none

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